

Claims

- Sub A¹ 1. Two-component water paint system comprising a isocyanate component and an aqueous emulsion of a hydroxy-functional alkyd resin, characterized in that the alkyd resin can be obtained from an oleic or fatty acid component, a polyvalent alcohol, a polyether polyol having a molecular weight of 400 to 8,000, a monobasic carboxylic acid and a dicarboxylic acid or the anhydride thereof.
2. Two-component water paint system according to claim 1, characterized in that the hydroxy-functional alkyd resin has a hydroxyl content of 1 to 8 wt.-%.
3. Two-component water paint system according to claim 1 or 2, characterized in that the hydroxy-functional alkyd resin is additionally modified due to a reaction with isocyanate.
- Sub A² 4. Process for the production of a two-component water paint system according to any of claims 1 to 3, comprising the steps
- 1) providing an isocyanate component,
 - 2) preparing an aqueous emulsion of a hydroxy-functional alkyd resin comprising:
 - a) reacting an oleic or fatty acid component, a polyvalent alcohol, a polyether polyol having a molecular weight of 400 to 8,000, a monobasic carboxylic acid and a dicarboxylic acid or the anhydride thereof to obtain a hydroxy-functional alkyd resin,
 - b) neutralizing the hydroxy-functional alkyd resin with ammonia or amine,
 - c) emulsifying the hydroxy-functional alkyd resin in water.
5. Process according to claim 4, characterized in that the alkyd resin is additionally reacted with isocyanate.

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